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V340 function generator with transformer coupling

HIGHLAND TECHNOLOGY

Features



- 8 channels of independently programmable sine, sawtooth, triangle, and square/pulse/PWM
- Output frequency range 0 to 2 MHz with 0.004 Hz resolution
- DC coupled outputs to 20.48 volts peak-to-peak
- Programmable offset allows wave + offset or direct DC DAC functionality
- Channel sync provisions allow generation of polyphase or synchronized waveforms
- Optional transformers provide isolated outputs up to 100 volts peak-to-peak and fault simulation
- Auxiliary connector provides channel sync outputs
- One general-purpose, differential, frequency counter input
- Clearly labeled dipswitches set VME address; no jumpers, headers, or trimpots
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- Includes channel test connector
- Optional built-in self-test (BIST)

The V340 provides eight independent DDS-synthesized waveform outputs, each programmable for frequency and amplitude. Any output may be switched to a front-panel test connector, allowing in-crate calibration check without removing field cables.

Optional software-switchable transformers are available with 1:1 or 5:1 ratios, providing isolated outputs to 100 volts peak-to-peak. Built-In-Self-Test is optional.

18 Otis Street San Francisco, CA www.HighlandTechnology.com tel: 415 551-1700 fax: 415 551-5129

Specifications : V340 function generator with transformer coupling

FUNCTION	8-channel VME function generator
DEVICE TYPE	16-bit VME register-based slave: A24:A16:D16 Implements 128 16-bit registers at switch selectable addresses in the VME 16 or 24 bit addressing spaces
CHANNELS	8 function generators, DC coupled -2x and -3x versions add programmable isolation per channel, fault simulation 8 TTL channel synchronization signals
FUNCTION WAVEFORMS	Sine, sawtooth, triangle, pulse
FAULT SIMULATION (TRANSFORMER VERSIONS ONLY)	High side ground short Low side ground short Differential short Open circuit
FUNCTION AMPLITUDE	DC coupled, programmable ±10.24 V and ±1.024 ranges Optional isolation transformers (1:1 or 5.4:1)
OUTPUT IMPEDANCE	50 Ω typical
RESOLUTION	Amplitude, 14 bits Frequency, 30 bits (~ 0.0037 Hz) Pulse duty, 16 bits (~ 0.0015 %)
BANDWIDTH	DC coupled: DC to 2 MHz 1:1 transformers: 100 Hz to 250 kHz 5.4:1 transformers: 100 Hz to 50 kHz
OFFSET ERROR	±1.024 V range: 2mV typ, 15-35°C Both ranges: 10 mV max, 0-60°C
GAIN ERROR	DC coupled: 0.5 % max, 15-35°C; 1 % max, 0-60°C Transformer coupled: 10% max (unloaded)
FLATNESS	±0.25 dB over DC coupled range
FREQUENCY ACCURACY	100 PPM
SYNC OUTPUTS	V_H: 4.8 V typical, 4.2 V min @ 24 mA V_L: 0.1 V typical, 0.6 V max @ 24 mA Duty cycle: 50% ± 22 ns max
FREQUENCY COUNTER INPUT	Differential, 2 V to 300 V P-P 10 Hz to 2 MHz
OPERATING TEMPERATURE	0 to 60°C; extended MIL/COTS ranges available
CALIBRATION INTERVAL	One year
POWER	Standard VME supplies: +5 V, 0.8 A max +12 V, 0.5 A max -12 V, 0.5 A max
CONNECTORS	One D25 female, 8 wave outputs and one differential frequency input One SCSI 50-pin female, sync outputs and digital expansion One D9 male, test/calibration check
INDICATORS	LEDs indicate VME access, CPU activity, error conditions Additional user programmable LED
PACKAGING	6U single-wide VME module
CONFORMANCE	ANSI/VITA 1-1994 (R2002) VMEbus spec; does not support byte writes

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